Tintometer[®] Group Water Testing



Page 1/9

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.11.2023

Version number 19 (replaces version 18)

Revision: 13.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- Product name: Iron II LR
- · Catalog number: 00515421, 4515420BT, 4515421BT, 00515429, 515420BT, 515421BT
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- Supplier: Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com

The Tintometer Limited Lovibond[®]House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom

- Informing department: e-mail: sds@lovibond.com Product Safety Department
- **1.4 Emergency telephone number:** +44 1235 239670 Languages: English

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements
- H319 Causes serious eye irritation.
- · Precautionary statements
- P280 Wear protective gloves / eye protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

phone: +49 (0)231 94510-0 e-mail: sales@lovibond.com

phone : +44 1980 664800 e-mail: SDS@lovibond.uk

Version number 19 (replaces version 18)

Revision: 13.11.2023

Product name: Iron II LR

P337+P313 If eye irritation persists: Get medical advice/attention.

· 2.3 Other hazards No further relevant information available.

· Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture of organic compounds.

| · Dangerous components: | | |
|-------------------------------------|--|--------|
| CAS: 124-04-9 | adipic acid | 10–20% |
| EINECS: 204-673-3 | () Eve Irrit. 2, H319 | |
| Index No: 607-144-00-9 | v i | |
| Reg.nr.: 01-2119457561-38-XXXX | | |
| CAS: 28048-33-1 | disodium 4,4'-[3-(pyridin-2-yl)-1,2,4-triazine-5,6-diyl]bis(benzenesulphonate) | ≤2.5% |
| EINECS: 248-797-6 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |
| · Additional information For the wo | ording of the listed hazard phrases refer to section 16. | • |

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information Instantly remove any clothing soiled by the product.

- · After inhalation
- Supply fresh air. Seek medical treatment in case of complaints.
- After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.
- After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.

Seek immediate medical advice.

· 4.2 Most important symptoms and effects, both acute and delayed:

- irritations
- coughing
- thirst

general feeling of sickness

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture

combustible

Formation of toxic gases is possible during heating or in case of fire.

nitrous gases

Nitrogen oxides (NOx)

Sulphur oxides (SOx)

Carbon monoxide (CO) and carbon dioxide (CO₂)

5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained breathing apparatus.

Wear full protective suit.

· Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

(Contd. of page 1)

Version number 19 (replaces version 18)

Revision: 13.11.2023

Product name: Iron II LR

Ambient fire may liberate hazardous vapours.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures
- Advice for non-emergency personnel:
- Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Advice for emergency responders: Protective equipment: see section 8
- 6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.
- 6.3 Methods and material for containment and cleaning up:
- Ensure adequate ventilation. Collect mechanically.

Dispose of contaminated material as waste according to item 13.

- **6.4 Reference to other sections** See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

- Advice on safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.
- Hygiene measures:
- Avoid contact with the eyes.
- Take off immediately all contaminated clothing.
- Wash hands during breaks and at the end of the work.
- Do not eat, drink or smoke when using this product.

· 7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers:

Store in cool location. Unsuitable material for container: steel.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Protect from heat and direct sunlight.

Protect from the effects of light.

Store under dry conditions.

Protect from humidity and keep away from water.

• Recommended storage temperature: 20°C +/- 5°C

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

Derived No Effect Level (DNEL)

| CAS: 124- | -04-9 ad | dipic acid |
|------------|----------|--|
| Oral | DNEL | 19 mg/kg (Consumer / acute / systemic effects) |
| | | 19 mg/kg (Consumer / long-term / systemic effects) |
| Dermal | DNEL | 38 mg/kg (Worker / acute / systemic effects) |
| | | 38 mg/kg (Worker / long-term /systemic effects) |
| | | 19 mg/kg (Consumer / acute / systemic effects) |
| | | 19 mg/kg (Consumer / long-term / systemic effects) |
| Inhalative | DNEL | 5 mg/m³ (Worker / acute / local effects) |

(Contd. of page 2)

Version number 19 (replaces version 18)

Revision: 13.11.2023

Product name: Iron II LR

| | (Contd. of page 3) |
|--------------------|---|
| | 264 mg/m ³ (Worker / acute / systemic effects) |
| | 5 mg/m ³ (Worker / long-term / local effects) |
| | 264 mg/m ³ (Worker / long-term /systemic effects) |
| | 65 mg/m ³ (Consumer / acute / systemic effects) |
| | 65 mg/m ³ (Consumer / long-term / systemic effects) |
| | n mended monitoring procedures: Is for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and N 689. |
| · PNECs Predict | ed No Effect Concentration (PNEC) |
| CAS: 1 | 24-04-9 adipic acid |
| PNEC | 59.1 mg/l (Sewage treatment plant) |
| | 0.0126 mg/l (Marine water) |
| | 0.46 mg/l (Aquatic intermittent release) |
| | 0.126 mg/l (Fresh water) |
| PNEC | 0.0228 mg/kg (Soil) |
| | 0.0484 mg/kg (Marine sediment) |
| | 0.484 mg/kg (Fresh water sediment) |
| Additi | onal information: The lists that were valid during the compilation were used as basis. |
| | |
| · 8.2 Ex | posure controls |
| • | eering measures: cal measures and appropriate working operations should be given priority over the use of personal protective equipment. m 7. |

· Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

- · Eye/face protection Safety glasses
- Hand protection

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves
- nitrile rubber, NBR
- Recommended thickness of the material: ≥ 0.11 mm
- Penetration time of glove material
- Value for the permeation: Level = 1 (< 10 min)

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Other skin protection (body protection): Protective work clothing.
- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P1
- · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

| · 9.1 Information on basic physical and ch | emical properties | |
|--|---------------------------|--|
| Physical state | Solid. | |
| Form: | Tablets | |
| · Colour: | Yellowish | |
| · Odour: | Odourless | |
| · Odour threshold: | Not applicable. | |
| · Melting point/Freezing point: | Not determined. | |
| Boiling point or initial boiling point and | boiling range 265°C | |
| Flammability | Flammable solid. | |
| - | Not determined. | |
| · Explosive properties: | Product is not explosive. | |

GB -

Version number 19 (replaces version 18)

Revision: 13.11.2023

Product name: Iron II LR

| | | (Contd. of page |
|---|---------------------------|-----------------|
| · Lower and upper explosion limit | | |
| Lower: | Not applicable. | |
| Upper: | Not applicable. | |
| Flash point: | ~ 196°C (CAS 124-04-9) | |
| Auto-ignition temperature: | Not applicable (solid). | |
| Decomposition temperature: | Not determined. | |
| pH at 20°C | 3.3 | |
| Kinematic viscosity | Not applicable (solid). | |
| Solubility | | |
| Water: | Soluble | |
| Partition coefficient n-octanol/water (log value) | Not applicable (mixture). | |
| Vapour pressure: | Not applicable. | |
| Density and/or relative density | | |
| · Density: | Not determined. | |
| Relative density: | Not determined. | |
| Relative gas density | Not applicable (solid). | |
| Particle characteristics | Not determined. | |
| · 9.2 Other information | | |
| · Information with regard to physical hazard classes | | |
| · Corrosive to metals | Void | |
| Other safety characteristics | | |
| · Oxidising properties: | none | |
| Additional information | | |
| Solids content: | 100.0 % | |

SECTION 10: Stability and reactivity

· 10.1 Reactivity Dust can combine with air to form an explosive mixture.

· 10.2 Chemical stability Stable at ambient temperature (room temperature).

10.3 Possibility of hazardous reactions

Reacts with reducing agents

Reacts with alkali (lyes)

Reacts with strong oxidizing agents

Nitric acid

· 10.4 Conditions to avoid Strong heating (decomposition)

· 10.5 Incompatible materials: steel

10.6 Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

| LD/LC5 | 0 value | es that are relevant for classification: |
|-----------|---------|--|
| CAS: 12 | 24-04-9 | adipic acid |
| Oral | LD50 | 5700 mg/kg (rat) (MERCK) |
| Dermal | LD50 | >7940 mg/kg (rabbit) (Registrant, ECHA: no deaths occurred) |
| CAS: 2 | 8048-33 | 3-1 disodium 4,4'-[3-(pyridin-2-yl)-1,2,4-triazine-5,6-diyl]bis(benzenesulphonate) |
| Oral | LD50. | >5000 mg/kg (rat) |
| · Skin co | rrosio | n/irritation Based on available data, the classification criteria are not met. |

· Serious eye damage/irritation Causes serious eye irritation.

· Information on components:

| CAS: 124-04-9 adipic acid | |
|-----------------------------|------------------------------|
| Irritation of skin OECD 404 | (rabbit: no irritation) |
| Irritation of eyes OECD 405 | (rabbit: severe irritations) |
| | (Center on page 6) |

^{- 00}

Version number 19 (replaces version 18)

Revision: 13.11.2023

(Contd. of page 5)

Printing date 13.11.2023 Product name: Iron II LR

| · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. |
|--|
| · Information on components: |
| CAS: 124-04-9 adipic acid |
| Sensitisation OECD 406 (guinea pig: negative) (IUCLID) |
| Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. |
| Information on components: OECD 414: Teratogenicity testing OECD 473: Mutagenicity testing OECD 471, 474, 476, 487: Germ cell mutagenicity testing |
| CAS: 124-04-9 adipic acid |
| OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test) (IUCLID) |
| OECD 474 (negative) (Mammalian Erythrocyte Micronucleus Test) |
| • STOT (specific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. • STOT (specific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. |

· Aspiration hazard Based on available data, the classification criteria are not met.

- · 11.2 Information on other hazards
- · Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

| • 12.1 Toxicity • Aquatic toxicity: CAS: 124-04-9 adipic acid LC50 [511 mg/l/48h (gold orfe) |
|---|
| CAS: 124-04-9 adipic acid |
| • |
| 1050 511 mg///38h (gold orfe) |
| |
| EC50 86 mg/l/48h (Daphnia magna) (OECD 202) |
| IC50 31 mg/I/72h (Desmodesmus subspicatus) (IUCLID) |
| LC50 97 mg/l/96h (fathhead minnow) (ECOTOX) |
| · Bacterial toxicity: |
| CAS: 124-04-9 adipic acid |
| EC50 92 mg/l (Pseudomonas putida) (DIN 38412) (IUCLID) |
| · 12.2 Persistence and degradability |
| CAS: 124-04-9 adipic acid |
| OECD 301 B 100 % / 28 d (readily biodegradable) (CO2 Evolution Test) |
| Other information: The following statements refer to the individual components. Quantitative data on the ecological effect of this product are not available. 12.3 Bioaccumulative potential Pow = n-octanol/wasser partition coefficient log Pow < 1 = Does not accumulate in organisms. |
| CAS: 124-04-9 adipic acid |

log Pow 0.081 (.) (25°C, OECD 107)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

(Contd. on page 7)

Version number 19 (replaces version 18)

Revision: 13.11.2023

Product name: Iron II LR

- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties. **12.7 Other adverse effects**
- Harmful effect due to pH shift.
- Avoid transfer into the environment.
- · Water hazard:

Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

· European waste catalogue

16 05 08* discarded organic chemicals consisting of or containing hazardous substances

- Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

| SECTION 14: Transport information | |
|---|--|
| · 14.1 UN number or ID number · ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name · ADR, IMDG, IATA | Void |
| 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA · Class | Void |
| · 14.4 Packing group · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: · Marine pollutant: | No |
| 14.6 Special precautions for user | Not applicable. |
| 14.7 Maritime transport in bulk according to IM instruments | D Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| · Poisons Act UK |
|------------------------------------|
| · Regulated explosives precursors |
| None of the ingredients is listed. |
| · Regulated poisons |
| None of the ingredients is listed. |
| · Reportable explosives precursors |
| None of the ingredients is listed. |
| · Reportable poisons |
| None of the ingredients is listed. |
| |

· Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated

(Contd. of page 6)

Version number 19 (replaces version 18)

Revision: 13.11.2023

Product name: Iron II LR

| ÷ . | U) No 649/2012 concerning the export and import of hazardous chemicals (PIC) |
|---|---|
| | gredients is listed. |
| | C) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and |
| technology: | un alloude in linds al |
| • | gredients is listed. |
| | C) No 273/2004 on drug precursors |
| | gredients is listed. |
| in drug precu | |
| None of the ing | gredients is listed. |
| • • | C) No 1005/2009 on substances that deplete the ozone layer: |
| None of the ing | gredients is listed. |
| REGULATION | (EU) 2019/1021 on persistent organic pollutants (POP) |
| None of the ing | gredients is listed. |
| LIST OF SUB | STANCES SUBJECT TO AUTHORISATION (ANNEX XIV) |
| | gredients is listed. |
| • | - |
| | f very high concern (SVHC) according to REACH, Article 57 bes not contain any substances of very high concern above the legal concentration limit of $\ge 0.1\%$ (w / w). |
| Substances o | f very high concern (SVHC) according to UK REACH |
| This product d | bes not contain any substances of very high concern above the legal concentration limit of $\ge 0.1\%$ (w / w). |
| | 2/18/EU (SEVESO III): |
| Named dange | rous substances - ANNEX I None of the ingredients is listed. |
| Information a | bout limitation of use: Not required. |
| 15.2 Chemica | a statu assessment A Chemical Safety Assessment has not been earlied out |
| SECTION 1 | I safety assessment: A Chemical Safety Assessment has not been carried out. 6: Other information |
| SECTION 1 | 6: Other information |
| SECTION 1 These data are and shall not e This Safety Da | 6: Other information |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes | 6: Other information a based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. Ises skin irritation. |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) e Provide adequate information, instruction and training for operators. Ises skin irritation. serious eye irritation. |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H335 May cau | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) e Provide adequate information, instruction and training for operators. serious eye irritation. serious eye irritation. ser respiratory irritation. |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa | 6: Other information a based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. ses skin irritation. serious eye irritation. se respiratory irritation. se respiratory irritation. and acronyms: I Civil Aviation Organisation |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective coi | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) e Provide adequate information, instruction and training for operators. ses skin irritation. serious eye irritation. se respiratory irritation. se respiratory irritation. (EU) i Civil Aviation Organisation ncentration, 50 percent (in vivo) |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective coo OECD: Organisati STOT: specific targ | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) e Provide adequate information, instruction and training for operators. eses skin irritation. serious eye irritation. se respiratory irritation. se respiratory irritation. 1 Civil Aviation Organisation neentration, 50 percent (in vivo) on for Economic Co-operation and Development get organ toxicity |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective co OECD: Organisatic STOT: specific targ SE: single expose RE: repeated exp | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. sees skin irritation. serespiratory irritation. se respiratory irritation. I Civil Aviation Organisation noentration, 50 percent (in vivo) an for Economic Co-operation and Development jet organ toxicity are osure |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective co OECD: Organisatio STOT: specific targ SE: single expose RE: repeated exp EC50: half maxima | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) e Provide adequate information, instruction and training for operators. sees skin irritation. serious eye irritation. se respiratory irritation. se respiratory irritation. and acronyms: I Civil Aviation Organisation neentration, 50 percent (in vivo) n for Economic Co-operation and Development get organ toxicity are osure l effective concentration |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective co OECD: Organisatio STOT: specific tar SE: single expose RE: repeated exp EC50: half maxima IC50: half maxima IC50: nalf maxima IC50: nalf maxima IC50: nalf maxima | 6: Other information a based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. sees skin irritation. serious eye irritation. se respiratory irritation. and acronyms: I Civil Aviation Organisation neentration, 50 percent (in vivo) in for Economic Co-operation and Development jet organ toxicity are osure I effective concentration inhibitory concentration o Observed Effect Level or Concentration |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective co OECD: Organisatio STOT: specific targ SE: single expose RE: repeated exp EC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) | 6: Other information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product fear stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. sees skin irritation. serious eye irritation. ser respiratory irritation. se respiratory irritation. and acronyms: I Civil Aviation Organisation nor Economic Co-operation and Development per organ toxicity ure osure I effective concentration inhibitory concentration o Observed Effect Level or Concentration f au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangel |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective coi OECD: Organisati STOT: specific targ SE: single expost RE: repeated exp EC50: half maximal IC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) RD: Règlement in | 6: Other information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. Bees skin irritation. serious eye irritation. serespiratory irritation. Civil Aviation Organisation ncentration, 50 percent (in vivo) in for Economic Co-operation and Development get organ toxicity ure osure l effective concentration inhibitory concentration inhibitory concentration i o Observed Effect Level or Concentration f au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Danger ternational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective coi OECD: Organisatic STOT: specific targ SE: single exposs RE: repeated exp EC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) RID: Règlement in Dangerous Goods IMDG: Internationa | 6: Other information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. sees skin irritation. serious eye irritation. se respiratory irritation. a and acronyms: I Civil Aviation Organisation norentration, 50 percent (in vivo) on for Economic Co-operation and Development get organ toxicity are osure I effective concentration I inhibitory concentration I of Desorent (in vivo) I of Desorent (|
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective co OECD: Organisati STOT: specific targ SE: single expost RE: repeated exp EC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) RID: Règlement in Dangerous Goods IMDG: Internationa IATA: Internationa | 6: Other Information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. Bee Skin irritation. Serious eye irritation. Serious eye irritation. Seres Skin |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: International EC50: effective co OECD: Organisatio STOT: specific tar SE: single expose RE: repeated exp EC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) RID: Règlement in Dangerous Goods IMDG: International GHS: Globally Har EINECS: Europeat | 6: Other information a based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. sees skin irritation. serious eye irritation. se respiratory irritation. a and acronyms: I Civil Aviation Organisation nor Economic Co-operation and Development per organ toxicity a effective concentration inhibitory concentration inhib |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective co OECD: Organisati STOT: specific tar STOT: specific t | 6: Other information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. Sees Skin irritation. serious eye irritation. serespiratory irritation. and acronyms: I Civil Aviation Organisation nentration, 50 percent (in vivo) n for Economic Co-operation and Development get organ toxicity re osure l effective concentration inhibitory concentration inhibitory concentration inhibitory concentration inhibitory concentration inhibitory concentration i a Utansport des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Danger ternational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport or by Rail) i Maritime Code for Dangerous Goods Ari Transport Association monised System of Classification and Labelling of Chemicals i Inventory of Existing Commercial Chemical Substances i List of Notified Chemical Substances List of Notified Chemical Substances i List of Notif |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: International EC50: effective co OECD: Organisatio STOT: specific tar SE: single expose RE: repeated exp EC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) RID: Règlement in Dangerous Goods IMDG: International GHS: Globally Har EINECS: Europear CAS: Chemical Ab DNEL: Derived No PNEC: Predicted N | 6: Other information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) a Provide adequate information, instruction and training for operators. Bess Skin irritation. serious eye irritation. serespiratory irritation. and acronyms: I Civil Aviation Organisation noentration, 50 percent (in vivo) on for Economic Co-operation and Development get organ toxicity are osure l effective concentration inhibitory concentration i a transport des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Danger ternational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport or by Rail) I Maritime Code for Dangerous Goods Ari Transport Association monised System of Classification and Labelling of Chemicals i Notified Chemical Substances Stacts Service (division of the American Chemical Society) Effect Level (UK REACH) better Concentration i Notified Chemical Substances builts of Notified Chemical Chemical Society) Effect Level (UK REACH) better Concentration i Concentration i Concentration i Development i Automotic Concentration i Notified Chemical Substances i List of Notified Chemical Chemical Society) |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: International EC50: effective co OECD: Organisatio STOT: specific tar SE: single expose RE: repeated exp EC50: half maximal NOEL or NOEC: N ADR: Accord relati Goods by Road) RID: Règlement in Dangerous Goods IMDG: International GHS: Globally Har EINECS: Europear CAS: Chemical Ab DNEL: Derived No PNEC: Predicted N | 6: Other information be based on our present knowledge. However, they shall not constitute a guarantee for any specific product feat stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. sees skin irritation. serious eye irritation. ser respiratory irritation. Civil Aviation Organisation control of the American Cale and the adaptive of t |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective coo OECD: Organisatit STOT: specific tar SE: single expost RE: repeated exp EC50: half maximal NCEL or NOEC: N ADR: Accord relati Goods by Road) RID: Règlement in Dangerous Goods IMDG: International GHS: Globally Har ELINCS: Europear ELINCS: Europear ELINCS: Europear ELINCS: Europear ELINCS: Europear CAS: Chemical Ab DNEL: Derived No PNEC: Predicted N LC50: Lethal dose PBT: Persistent, B | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fea stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) Provide adequate information, instruction and training for operators. sets skin irritation. serious eye irritation. se respiratory irritation. P and acronyms: I Civil Aviation Organisation Covernent tails, 50 percent (in vivo) on for Economic Co-operation and Development yet organ toxicity re osure I effective concentration O observed Effect Level or Concentration Fa transport international des marchandises dangereuses par route (European Agreement Concerning the International Transport or by Rail) I Maritime Code for Dangerous Goods Ai Transport Association monised System of Classification and Labelling of Chemicals I Transport Substances I List of Nutified Chemical Substances I List of |
| SECTION 1 These data are and shall not e This Safety Da 2020/878. Training hints Relevant phra H315 Causes H319 Causes H319 Causes H335 May cau Abbreviations ICAO: Internationa EC50: effective col OECD: Organisatio STOT: specific tar STOT: s | 6: Other information e based on our present knowledge. However, they shall not constitute a guarantee for any specific product fea stablish a legally valid contractual relationship. ta Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) e Provide adequate information, instruction and training for operators. ses skin irritation. serious eye irritation. serespiratory irritation. serespiratory irritation. serespiratory irritation incentration, 50 percent (in vivo) in for Economic Co-operation and Development get organ toxicity are osure li effective concentration inhibitory concentration o Observed Effect Level or Concentration a turansport des marchandises dangereuses par route (European Agreement Concerning the International Transport of by Rail) I Maritime Code for Dangerous Goods Ar Transport Association and Labelling of Chemicals in Inventory of Existing Commercial Chemical Substances List of Notified Chemical Substances stards Service (division of the American Chemical Society) Effect Level (UK REACH) observed Effect Level (UK REACH) observed |

Version number 19 (replaces version 18)

Product name: Iron II LR

Printing date 13.11.2023

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· Sources

Data arise from safety data sheets, reference works and literature. ECHA: European CHemicals Agency http://echa.europa.eu RTECS (Registry of Toxic Effects of Chemical Substances) ECOTOX Database GESTIS- Stoffdatenbank (Substance Database, Germany) IUCLID (International Uniform Chemical Information Database)

** Data compared to the previous version altered.

Revision: 13.11.2023

(Contd. of page 8)

GB -